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TI - EXHAUST GAS REFLUX DEVICE OF DIESEL ENGINE

AB - PURPOSE: To prevent soot dust and unburnt hydrocarbon from being stuck and deposited on an air intake port by arranging a particulate trap and an oxidation catalytic layer in the EGR gas reflux circuit, respectively, for respectively eliminating soot dust and unburnt hydrocarbon in an EGR gas reflux circuit.

- CONSTITUTION: An inlet part of an EGR gas pipe 13 for constituting a EGR gas reflux circuit 12 is connected to the halfway part of an exhaust pipe 6 in an engine 1. And an outlet part of the EGR gas pipe 13 is connected to the halfway part of an air intake pipe 8 through a soot trap 14, a superheating heater 17, an oxidation catalytic layer 21 and an EGR gas cooler 22. And a variable back pressure control valve 15 and an exhaust gas economizer 16 are arranged downstream of the exhaust pipe 6. Moreover, a fine-controlling EGR ratio control valve 18 is arranged downstream of the EGR gas cooler 22. Therefore, soot dust and unburnt hydrocarbon in the EGR gas reflux circuit 12 can be respectively removed, for preventing them from being stuck and deposited on an air intake port.

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